

JOB DESCRIPTION

Definition of the assignment

In the context of the development of its innovating program, Pradeo is hiring a young Computer Science Ph.D to join its Research and Development team. The applicant should be experienced in various program analysis related domains, namely reverse-engineering, compilation, decompilation.

Assignment	Starting date	Status	Department	Location
Comp. Sci. Ph.D	November 1 st 2012	Manager	R&D	Montpellier (FR)

Yearly salary : to be decided CDI CDD Service provider Trainee

Place within the organization

This work takes place in the Research and Development department under the direction of Mr. Vivien RAOUL, CTO.

Description of the activity

The task will consist of research work in static analysis and decompilation of code, development of reverse-engineering methods, and behavioral analysis of programs. There exists a variety of targeted platforms and languages: Java, Objective-C, C#, C and C++. In the context of your research activity, you will have to manage one or more Ph.D students in addition to your own research and development tasks.

Tasks

- Applied research leading to creation of innovating methods and technologies
- Management of Ph D. students
- Partnership with LIRMM (Laboratoire Informatique Robotique et Microélectronique de Montpellier)
- Development of a proof of concept
- Participation in the writing of specifications
- Application of the specifications together with other team members
- Development of a plan of experimental evaluation
- Realization of the completion phase
- Writing of completion reports, with possible suggestions
- Writing of scientific papers and technical documentation
- Presentation of research work in national or international conferences
- Bibliographic study and technical watch

Recruitment profile

Level of education	Prof. experience	Job specifications
Comp. Sci. Ph.D	Beginner (1 st hire)	<ul style="list-style-type: none"> - Knowledge of programming (object, procedural style) - Strong expertise in reverse-engineering and decompilation

Expected skills

- Curiosity
- Team work
- Ability to communicate results, encountered difficulties and corrective decisions taken.
- Rigor
- Creativity
- Proposition of new ideas
- Writing ability